

ABSTRACT

A cleaning device for removing contaminants from a surface of an object to be cleaned, the device adapted to be fluidically connected to a high-pressure gas supply. The device comprises at least one high-pressure passage with a
5 predetermined miniature lateral scale with a high-pressure outlet for accelerating the gas. The high-pressure outlet characterized by at least one narrow lip, where the outlet and the narrow lip defining an active surface. When the active surface of the cleaning device is brought to a predetermined miniature gap from, and substantially parallel to, the surface, thus defining a throat section between the narrow lip and the
10 surface of the object to be cleaned and the gas accelerated to about sonic speeds at the throat section, lateral aeromechanic removal forces are produced that act on the contaminants.